

| | | | |
|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/661,310 | MARINE ET AL. | |
| | Examiner | Art Unit | |
| | Pradeep C. Battula | 3722 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 5/31/07.
2. ☒ The allowed claim(s) is/are 4,7,35-48 and 53.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Monica S. Carter
 MONICA CARTER
 SUPERVISORY PATENT EXAMINER

DETAILED ACTION***Allowable Subject Matter***

Claim 4, 7, 35 – 48, and 53 are allowed. Claims 4, 7, 48, and 53 are independent claims without any dependent claims. Claim 35 is Independent with Claims 36 – 47 being dependent.

In regards to Claim 4, 35, and 48, the prior art, when applied alone or in combination, does not disclose the claimed invention of a Geneva mechanism for providing intermittent motion; comprising a drive gear for receiving rotational input where the drive gear has a cam structure with drive teeth and a cam recess region and drive-cam bearing surface. The prior art also fails to disclose the invention further comprising a driven gear having driven teeth and a cam structure with at least two bearing surface regions and a cam lobe portion. Furthermore, the prior art fails to disclose wherein the driven gear has an engaged configuration and two non-rotating configurations and when the system is in a non rotating configuration one of the bearing surface regions slides along the drive cam bearing surface; and wherein the cam recess region includes extended drive teeth formed by a portion of set of drive teeth, which are longer axially than a remaining portion of the drive teeth of the set.

In regards to Claim 7 and 53, the prior art, when applied alone or in combination, does not disclose the claimed invention of a Geneva mechanism for providing intermittent motion; comprising a drive gear for receiving rotational input where the drive gear has a cam structure with drive teeth and a cam recess region and drive-cam bearing surface. The prior art also fails to disclose the invention further comprising a

Art Unit: 3722

driven gear having driven teeth and a cam structure with at least two bearing surface regions and a cam lobe portion. Furthermore, the prior art fails to disclose wherein the driven gear has an engaged configuration and two non-rotating configurations and when the system is in a non rotating configuration one of the bearing surface regions slides along the drive cam bearing surface; and wherein the cam lobe portion includes a set of cam lobe teeth formed from a portion of the set of driven teeth, which extend axially from a remaining portion of driven teeth of the set.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pradeep C. Battula whose telephone number is 571-272-2142. The examiner can normally be reached on Monday - Thursday 7:00AM - 4:30PM and every other Friday 7:00AM – 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica S. Carter can be reached on 571-272-4475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3722

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PCB
Patent Examiner
July 2, 2007

Monica S. Carter
MONICA CARTER
SUPERVISORY PATENT EXAMINER